

October 29, 2010

City of Burbank
Park, Recreation and Community Services Department
150 North Third Street
Burbank, California 91502
Attention: Ms. Janice G. Bartolo

Re: Request for Proposals for Infrastructure Improvement Project at Johnny Carson Park

Dear Jan,

It is a privilege to submit our qualifications to the City of Burbank for the *Infrastructure Improvement Project at Johnny Carson Park*. AHBE has dedicated nearly 25 years to designing socially relevant and sustainable public spaces within the urban context and we are very excited about another potential collaboration with the City of Burbank with this endeavor. Our success and reputation in sustainable design and planning come from a commitment to improving urban life with minimal impact and maximum benefit to the natural environment. We believe that the urban landscape, especially parks, is the perfect setting to synthesize and integrate residents with nature, while efficiently and effectively supporting the social and environmental welfare of the area. Additionally, Johnny Carson Park is a step towards transforming the Los Angeles region's urban system into a more natural space.

AHBE's progressive approach to landscape architecture means we bring innovative solutions to the design of our projects, which are diverse in size and complexity. Within this proposal, our collection of urban and naturalistic landscape projects demonstrates our collaboration with multiple public agencies as well as the incorporation of sustainable features within our designs. While every project brings its own set of challenges, we are uniquely qualified to lead this project based on our successfully completed work and our familiarity with the City of Burbank. We are knowledgeable about the existing site and believe the goals and objectives set forth by the City align with our own design goals, objectives and skills.

We have brought together a team of professionals that has comprehensive knowledge of the factors that will influence and contribute to the design excellent and success of this project. Our team is made up of:

- California Watershed Engineering - Civil Engineering, Structural Engineering, Surveying
- Restoration Design Group - Stream and Habitat Restoration Specialists
- Kipust Engineering, Inc. - Electrical Engineering
- Geotechnologies, Inc. - Geotechnical Engineering
- Sweeney + Associates - Irrigation Design
- Jacobus & Yuang - Cost Estimating
- J Lou Architect, Inc. - Architecture (if deemed necessary)

Thank you very much for your time and consideration, and we look forward to hearing from you regarding the final team selection. Please feel free to contact me directly at 310-838-0448, or at emather@ahbe.com.

Yours Very Truly,



Evan Mather, RLA, ASLA

Associate

AHBE Landscape Architects is an award-winning professional service corporation, providing comprehensive services in the fields of Landscape Architecture and Environmental Planning. The firm has worked on a wide variety of project types and scales including gardens, parks and recreational facilities, educational and corporate campuses, medical facilities, civic plazas, streetscapes and "green streets," mixed-use developments, housing, trail systems, and master plans.

With an office staff of 12 technical members, AHBE Landscape Architects integrates planning and design. We approach projects with a contextual perspective by investigating site, program, and project intent with rigor, intuition, and rationality. We address every project holistically, regardless of size, by utilizing our diverse staff resources and emphasizing the fundamental significance of the design of a place and its relationship to the larger environment. Through a team approach and our staff's extensive experience, we are able to investigate solutions that are artful, responsible, socially relevant, scientifically sound and technologically innovative. We see landscape as a continuum of relationships, one that is dynamic and sensitive and reflects the interconnectedness of human and natural systems.

The firm has extensive experience building projects throughout Southern California. Additionally, the firm has experience in other U.S. regions and overseas.

Certifications

AHBE Landscape Architects is a certified Small Business Enterprise [SBE], Minority Business Enterprise [MBE], and Disadvantaged Business Enterprise [DBE].

Firm Organization

Founder and President: Calvin R. Abe, California
Registered Landscape Architect #2023, 1980
Type of Organization: California Corporation
Year Established: 1987
Year Incorporated: 1989
Corporate Legal Name: Calvin R. Abe & Associates, Inc.
Doing Business As (DBA): AHBE Landscape Architects

Professional Services

LANDSCAPE ARCHITECTURE

- Hardscape design
- Planting design
- Irrigation design
- Sustainable guidelines
- Construction documentation
- Specifications
- Construction administration

ENVIRONMENTAL PLANNING & URBAN DESIGN

- Open space planning and design
- Landscape/site master planning
- Restoration/revegetation planning
- Green infrastructure planning and design
- Community participation planning

AHBE MOTION

- Video production services that support our Client's and our own communication and public outreach efforts for design projects.

Contact Information

8729 Washington Boulevard
Culver City, CA 90232
T: 310.838.0448
F: 310.204.2664
www.ahbe.com

Understanding of Project

The proposed services is for the landscape design for the existing Johnny Carson Park, which is approximately a 17-acre parcel in the city of Burbank, California. The client is the City of Burbank Park, Recreation and Community Services Department.

The City of Burbank has identified that the existing park needs improvement and updating in terms of overall appearance and function that relates to maintenance issues. We are committed to delivering to the City of Burbank a park improvement design that is a model for sustainability, as well as a design that will solve problems the features of the current park faces including the existing lighting, accessible routes to the street and restrooms, vehicular/pedestrian bridges, play equipment, irrigation system, drainage, and stage area. Additionally, we will take into account the restoration of the historic stream (Little Tujunga Wash) within the park, mitigating the visual characteristics of the electrical towers, and a revision of the existing planting and irrigation system to minimize water consumption.

Theoretical Approach

With nearly twenty-five years of experience creating community parks and improving the natural and urban outdoor environments, AHBE Landscape Architects has learned that each project can bring critical benefits to human and wildlife habitats located far beyond the project's intended area of influence. For each project, we ponder and explore the complex relationships between the urban environment, its residents, and the natural environment, looking for solutions that are influential to their surroundings on a macro and micro level. This project provokes interesting opportunities to explore through innovative, technical and creative design. It will give the City of Burbank an opportunity to show how a park can be beneficial in servicing both the neighborhood and the environment of an area. This, we believe, can help the users to understand their own connection to the ecological and social systems.

Throughout the design process, we will look at the site as a continuum of sensitive, dynamic relationships that reflect the connections between man-made and natural systems, investigating design solutions that are low impact, artful, rational, practical, and technologically innovative. We intend to provide full services from schematic design through construction documents. Additionally, we are available to provide support during the bidding and construction administration phase.

Some key topics we will explore in our design process will be:

The Nature Of Nature

A key aspect of this project will be to understand the nature of the natural processes that will impact the site, including but not limited to the hydrology and water level fluctuations of the Little Tujunga Wash that bisects the park, that relationship to local water resources, the regional climate, quality of the existing vegetation, and extent of invasive species.

The Nature Of Open Spaces With Respect To Their Urban Contexts

Open spaces adjacent to extensive urbanized areas have increased demands of them — they not only have to function as a passive open space, but also as a recreational resource that can absorb the impact caused by hundreds of visitors annually. Clearly understanding this impact will be critical in developing a long term design solution for Johnny Carson Park.

Experiencing Natural Environments

We believe that the vision behind the park's appropriate improvements is an approach that will maximize the outdoor experience, while providing visitor services. While the Johnny Carson Park is one of many options for area locals to experience nature, we believe it is a great opportunity to explore how we can encourage residents to appreciate nature in a variety of creative ways. We intend to develop every aspect and detail of our design solution to facilitate visitors' experience with nature.

PROJECT SCOPE OF WORK WORK PLAN

Scope of Work

The project is a series of comprehensive infrastructure improvements for Johnny Carson Park located in Burbank, California. The focus of the improvements will be: upgrading of the park walkway lighting to safe, energy-efficient fixtures; reconstruction the of park service road as an ADA accessible route with integrated parcourse equipment; connection of the accessible route to existing restrooms and play area; restoration of existing stream channel and establishing it as a major design element for the park; renovation of the existing "Tonight Show" play area with new play equipment that is fully compliant with CPSC and ADA guidelines; renovation of the park's irrigation system to meet all current AB1881 water use requirements. We will provide full services from schematic design through construction documents – and will be available to provide assistance to the Park, Recreation and Community Services department during the bidding and construction administration phase. Note that while the scope includes the preparation of an assessment report of the existing vehicular/pedestrian bridges and conceptual design analysis of the existing stage area – these improvements are specifically excluded from this scope of work pending design direction.

Professional Services

Task 1.0: Schematic Design - January 2011 to April 2011

The purpose of this phase is to establish the design process, schedule, general budget, program requirements, and site constraints. It is our intent that this phase will be an interactive design process that includes meetings, design pin-ups, conceptual design discussions, and further definition of the client's needs. Specific tasks include:

- 1.01 Host Project Kick-Off meeting with City of Burbank and Design Team to discuss project goals, design process, and schedule.
- 1.02 Perform utility search for all affected utilities in the project area including, but not limited to, water, electric, gas, sewer, communication, and storm drain. Develop a technical memorandum identifying each utility, as-built drawing numbers, contact information for each utility, and their existing and proposed structures in the project area.
- 1.03 Perform design topographic mapping and boundary survey for the project's A.P.N. 2484-025-272 & 900. Obtain current title report for the project's A.P.N. to identify the right-of-way of the park.
- 1.04 Prepare preliminary CAD base maps in AutoCAD format (DWG) for design studies and analysis.
- 1.05 Prepare Stream Restoration Assessment Memo that proposes alternative approaches to restoration of the stream based on existing geomorphic conditions, reference stream surveys, and historical characterization.
- 1.06 Preparation of Geotechnical Report including subsurface exploration, report preparation, laboratory testing, and percolation testing.
- 1.07 Host Design Charette to address stream alignment, stormwater mitigation, native landscaping and habitat restoration, and site accessibility.
- 1.08 Prepare preliminary conceptual grading plan
- 1.09 Prepare preliminary conceptual electrical site plan.
- 1.10 Prepare three (3) Conceptual Landscape Plan alternatives for submittal to City of Burbank.
- 1.11 Present alternatives to City of Burbank.
- 1.12 Consolidate Conceptual Landscape Plan alternatives into one (1) plan based on comments from City of Burbank.

- 1.13 Submit one (1) 30"x42" colored Conceptual Landscape Plan to City of Burbank.
- 1.14 Submit cost estimate for Conceptual Landscape Plan to City of Burbank.
- 1.15 City of Burbank Review Period #1.

Task 2.0: Design Development - April 2011 to July 2011

Following written Schematic Design approval, the Design Team shall complete the following tasks:

- 2.01 Host Design Charette with Design Team to initiate Design Development phase.
- 2.02 Prepare Stream Restoration drawings for coordination and review.
- 2.03 Prepare Electrical Site Plan.
- 2.04 Prepare refined hardscape plans
- 2.05 Prepare refined planting plans
- 2.06 Prepare refined conceptual irrigation plans
- 2.07 Assemble color photographic images of proposed trees, shrubs, and ground covers into report.
- 2.08 Assemble color photographic images of proposed site furnishings (benches, tables, lighting) into report – with product information including the manufacturers, models, sizes, finishes, colors, and special remarks.
- 2.09 Prepare play equipment alternatives.
- 2.10 Submit three (3) bond sets of 30"x42" 90% DD Package for review by City of Burbank.
- 2.11 City of Burbank Review Period #2.
- 2.12 Revise 90% DD Package based on comments received from City of Burbank.
- 2.13 Submit three (3) bond sets of 30"x42" 100% DD Package for review by City of Burbank.
- 2.14 Submit 100% DD Cost Estimate to City of Burbank.
- 2.15 City of Burbank Review Period #3.

Task 3.0: Construction Documents - July 2011 to November 2011

Following written Design Development approval, the Landscape Architect shall complete the following tasks:

- 3.01 Meet with City of Burbank Park, Recreation & Community Services Board to present for approval design plans prior to preparation of final Construction Documents.
- 3.02 Meet with City of Burbank City Council to present for approval design plans prior to preparation of final Construction Documents.
- 3.03 Host Design Team coordination meeting to initiate Construction Document phase and address comments from City of Burbank.
- 3.04 Prepare hardscape layout plans with enlargements showing horizontal control dimensions and construction detail call-outs.
- 3.05 Prepare planting plans.
- 3.06 Prepare irrigation plans.
- 3.07 Prepare details for construction of hardscape, planting, and irrigation.
- 3.08 Prepare grading and drainage plan.
- 3.09 Prepare "Bridge Assessment Report" based on proposed usage.
- 3.10 Prepare structural engineering for light pole footings.
- 3.11 Prepare stream restoration plans.
- 3.12 Prepare electrical plans.

- 3.13 Prepare CSI specifications for relevant sections. Landscape Architect shall deliver copy-ready specifications to Architect. Architect shall perform final collating of specifications.
- 3.14 Submit three (3) bond sets of 30"x42" 30% Construction Documents and revised cost estimate for review by City of Burbank.
- 3.15 City of Burbank Review Period #4.
- 3.16 Host Design Team coordination meeting to review City of Burbank comments on 30% CD package.
- 3.17 Revise 30% CD package based on comments from City of Burbank.
- 3.18 Submit three (3) bond sets of 30"x42" 60% Construction Documents and revised cost estimate for review by City of Burbank.
- 3.19 City of Burbank Review Period #5.
- 3.20 Host Design Team coordination meeting to review City of Burbank comments on 60% CD package.
- 3.21 Revise 60% CD package based on comments from City of Burbank.
- 3.22 Submit three (3) bond sets of 30"x42" 90% Construction Documents and revised cost estimate for review by City of Burbank.
- 3.23 City of Burbank Review Period #6.
- 3.24 Host Design Team coordination meeting to review City of Burbank comments on 90% CD package.
- 3.25 Revise 90% CD package based on comments from City of Burbank.
- 3.26 Submit 100% CD Cost Estimate to City of Burbank.
- 3.27 Submit three (3) bond sets of 30"x42" 100% Construction Documents for review by City of Burbank.
- 3.28 City of Burbank Review Period #7.
- 3.29 Host Design Team coordination meeting to review City of Burbank comments on 100% CD package.
- 3.30 Revise 100% CD package based on comments from City of Burbank.
- 3.31 Secure regulatory permits including Section 404 Nationwide Permit, Section 401 Water Quality Certification, and Section 1603 Department of Fish and Game agreement.
- 3.32 Assist City of Burbank as necessary to obtain approvals from Caltrans, County of Los Angeles Flood Control District, and City of Los Angeles Department of Water and Power.
- 3.33 Submit three (3) bond sets and one (1) mylar set of 30"x42" Bid documents to City of Burbank. Bid documents will also be provided in electronic format.

Phase 4.0: Bidding and Mobilization - November 2011 to January 2012

During the 30 Day Bid Period, the Design Team shall perform the following tasks:

- 4.01 Bid Period: Attend Pre-Bid Meeting, Respond to Requests for Information (RFI), Issue Architect Supplemental Instruction (ASI) as needed.
- 4.02 Award of Contract and Contractor Mobilization

Phase 5.0: Construction Administration - January 2012 to July 2012

Once the construction contract is awarded, the Landscape Architect shall complete the following tasks:

- 5.01 Attend Pre-Construction Meeting.
- 5.02 Review all Contractor Submittals.
- 5.03 Attend Construction Project Meetings – assume twelve (12).
- 5.04 Attend Final Inspection Meeting Prior to City Acceptance.
- 5.05 Develop Punch List Prior to Final Acceptance.

Task 6.0: Reimbursables

A reimbursables budget has been included in this fee proposal. Reimbursable expenses include: blueprinting, plotting (bond, vellum, and color), color laser printing, black and white and color reproduction, photographic film and processing, long distance phone charges, travel within the Los Angeles metropolitan area, mileage, parking fees, commercial messenger charges, overnight delivery, postage and handling. Reproduction costs assume a 48-sheet bid package. These expenses will be billed at 1.10 times cost. Mileage shall be billed at \$0.50 per mile.

Assumptions

Refer to accompanying cost proposal for detailed information regarding subconsultant scope and assumptions.

Professional services not included:

1. Graphic design including ADA signage.
2. Restroom renovation design and documentation.
3. Bridge structural renovation and engineering (scope to be revisited based on recommendations of "Bridge Assessment Report").
2. Fountain mechanical engineering.
3. Waterproofing design and documentation.
4. Preparation of ADA access diagrams.
5. Arborist Report.
6. Preparation of separate Street permit documents.
7. Caltrans drawings.
8. Development and production of film/video presentations.

Additional Services

All services not included in the above scope of work will be considered Additional Services and will be billed at the Standard Hourly Rates. All additional services will require written authorization from Architect and/or Owner before proceeding with any approved changes.

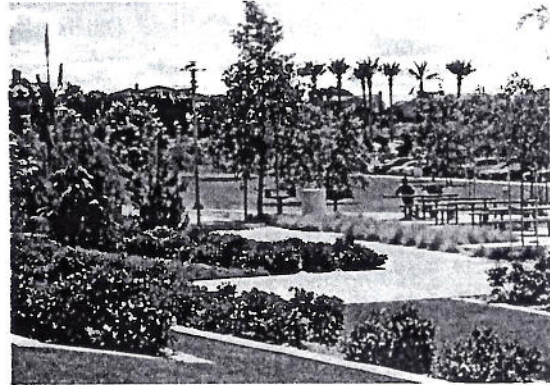
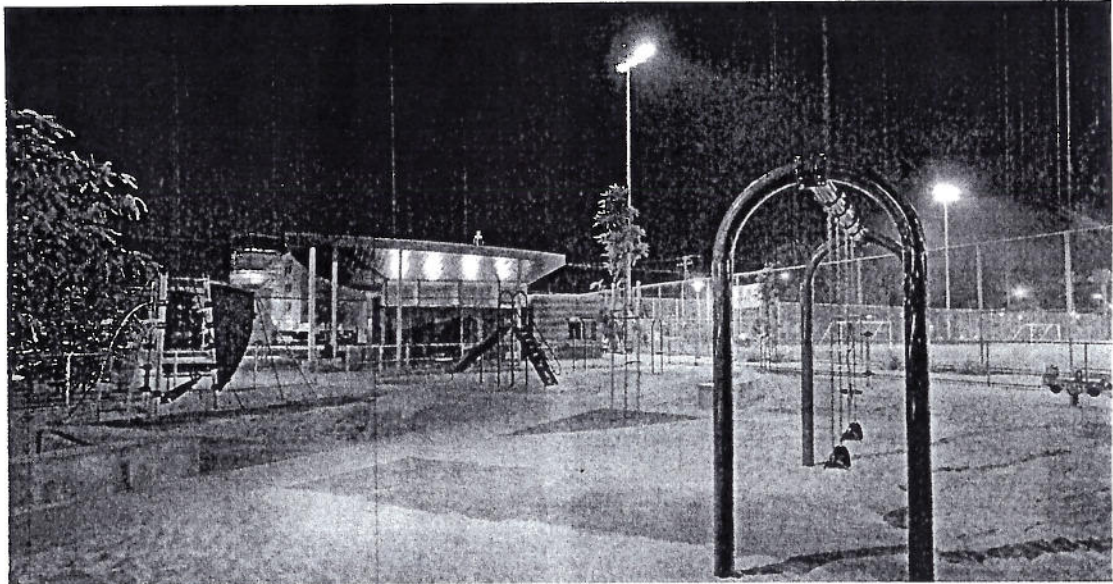
RELEVANT EXPERIENCE
AHRF PROJECTS

RELEVANT PROJECT LIST

PROJECTS IN BOLD FONT ARE FEATURED ON THE FOLLOWING PAGES.

Airport Park, Santa Monica, California
Angels Knoll Garden Plaza, Los Angeles, California
Avalon Park and Streetscape, San Pedro, California
Burbank Community Services Building, Burbank, California
Burbank Water and Power Employee Courtyard, Burbank, California
Burbank Water and Power Roof Garden and Green Roof, Burbank, California
Burbank Water and Power Service Center Warehouse, Burbank, California
Cabrillo Coastal Park, San Pedro, California
Cerritos Community Regional Park, Cerritos, California
City of Burbank Lake Street Green Street, Burbank, California
Courson Park and Senior Center, Palmdale, California
Culver Slauson Park, Los Angeles, California
Deane Dana Friendship Park, Los Angeles, California
Diamond Bar Community Recreation Center, Diamond Bar, California
Discovery Park, Torrance, California
Five Points Park, Burbank, California
Gardena Willows Wetland, Gardena, California
Gladstone Mini Park, Los Angeles, California
Glendale Heritage Garden Park, Glendale, California
Green Meadows Park, Los Angeles, California
Harvard Mini Park, Glendale, California
Kenneth Hahn State Recreation Area Soccer Fields, Los Angeles, California
La Mirada Park, La Mirada, California
Lemon Grove Recreation Center, Los Angeles, California
Los Angeles River Garden Park, Los Angeles, California
Ojai Valley Bike Trails, Ojai, California
Parthenia Park, Los Angeles, California
Point Fermin Outdoor Education Center, San Pedro, California
Robert F. Kennedy Community Schools and Wilshire Public Park, Los Angeles, California
Sorensen Park, Whittier, California
Travel Town Museum at Griffith Park, Los Angeles, California
Trinity Park, Los Angeles, California
Valinda Avenue Greenway, West Covina, California
Venice Beach Children's Play Area, Venice, California
Windsor Mini Park, Glendale, California
Vermont Median Park Feasibility Study, Los Angeles, California

AIRPORT PARK
SANTA MONICA, CALIFORNIA

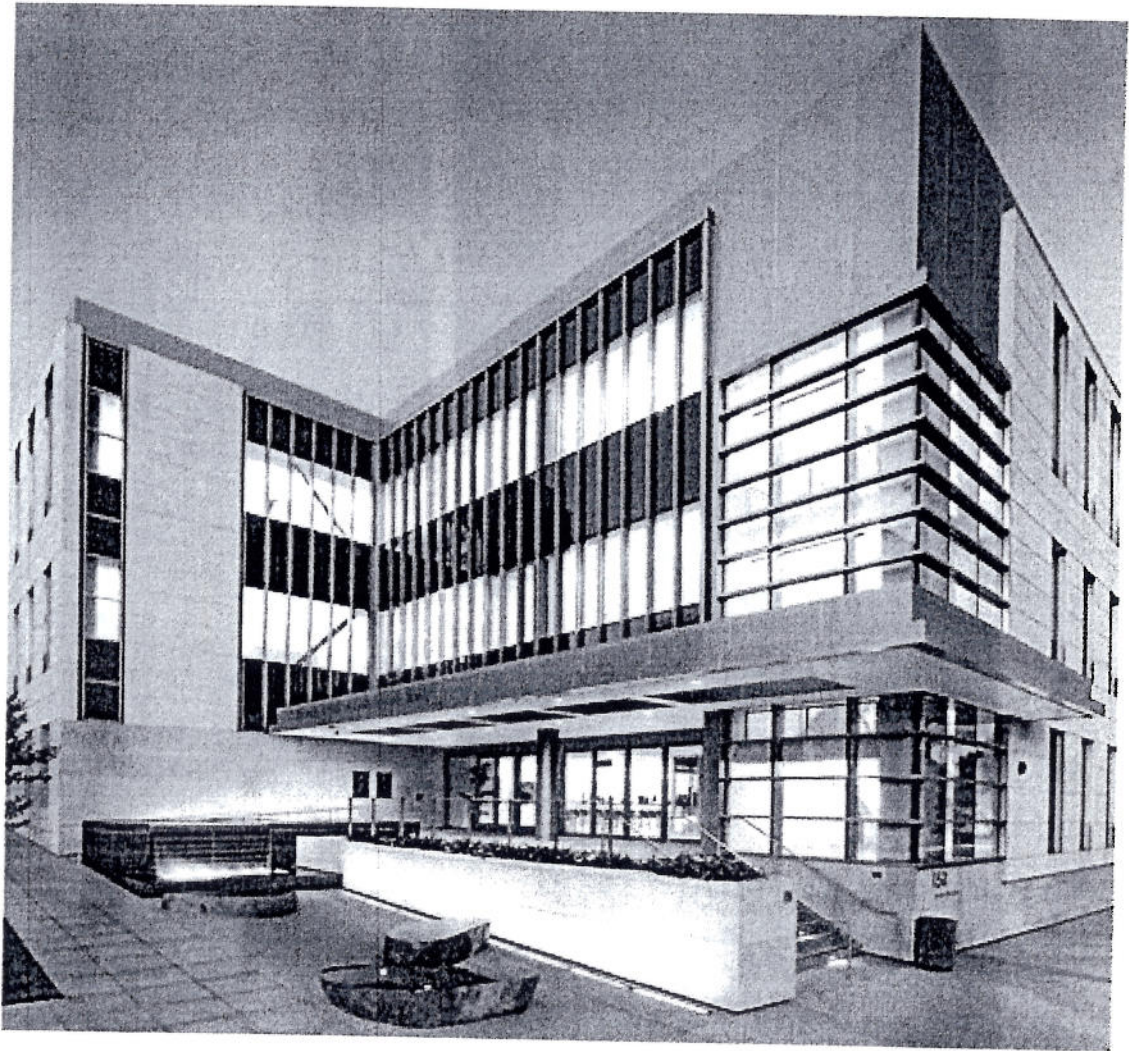


Client: City of Santa Monica

AHBE Landscape Architects led a consultant team to develop this new 8-acre public park located adjacent to the Santa Monica Municipal Airport. AHBE's design transformed a former parking lot into an active community park.

As Santa Monica's first new park in 24 years, Airport Park serves as a city and regional gateway. The design incorporates sustainable techniques and features for storm water management, planting and irrigation. Visitors enjoy the use of two synthetic-turf soccer fields, an off-leash dog park, a playground, passive open space and picnic areas, and jogging paths.

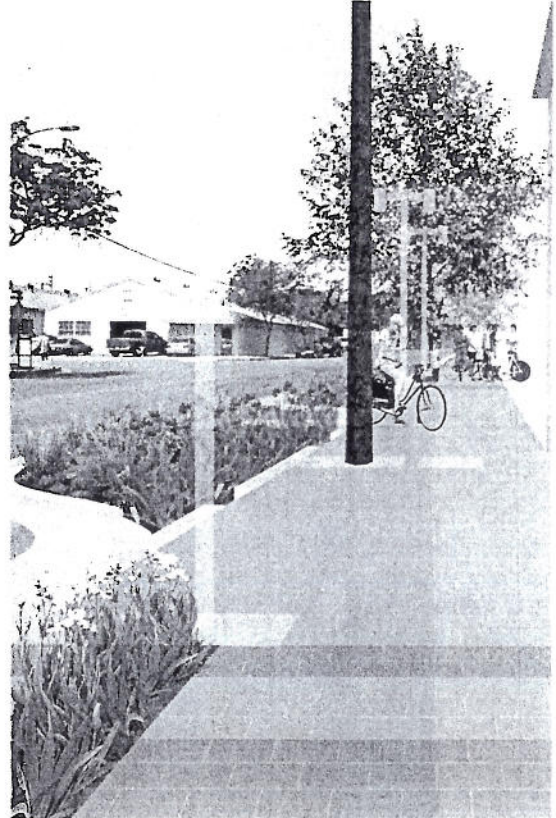
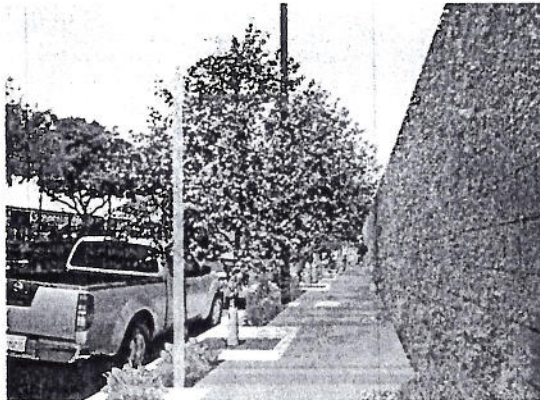
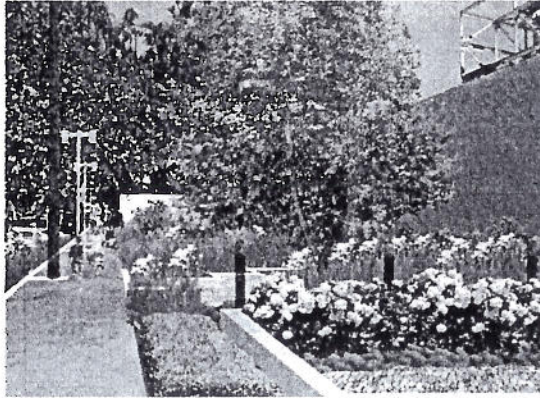
BURBANK COMMUNITY SERVICES BUILDING
BURBANK, CALIFORNIA



Owner: City of Burbank

Completed in 2008, Burbank's new Community Services Building consolidated many city departments and services into one location. The project incorporates an array of sustainable building strategies to lower energy consumption, minimize the impact of the building on the environment, and improve the indoor environmental quality for patrons and workers. The three-story, 72,000-square foot building received a LEED Gold certification for its numerous environmentally-friendly design elements. AHBE provided design through construction administration services for planting, irrigation, and hardscape for the entry plaza, streetscape, and parking lot.

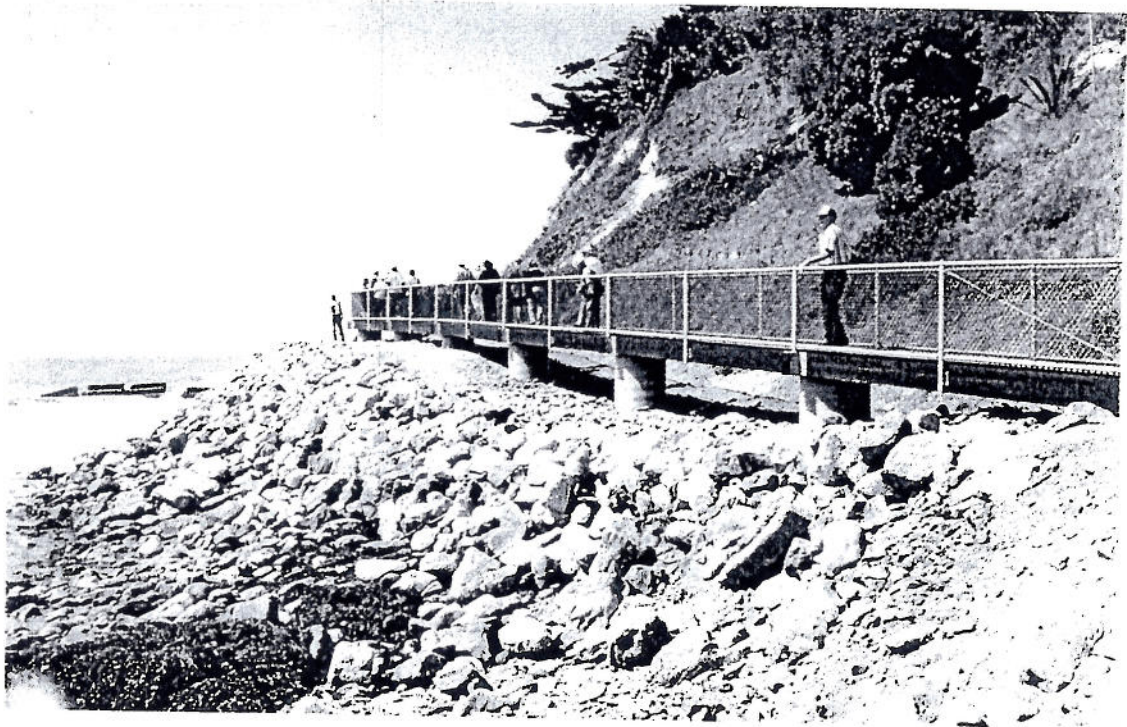
CITY OF BURBANK LAKE STREET GREEN STREET
BURBANK, CALIFORNIA



Client: Burbank Water and Power

This three-block stretch of Lake Street in the City of Burbank is characterized as a sustainable "green street." The new "green street," scheduled for completion in November 2010, will demonstrate innovative stormwater treatment technologies with features such as permeable pavers, flow-through planters, and tree pod biofilters. These items will route stormwater away from the street and parking areas back into the ground, nourishing the vegetation as well as recharging the groundwater aquifers. AHBE is providing design through construction administration for planting, hardscape, and irrigation—including a recycled water irrigation system. AHBE Landscape Architect is the prime consultant on the project.

CABRILLO COASTAL PARK
SAN PEDRO, CALIFORNIA



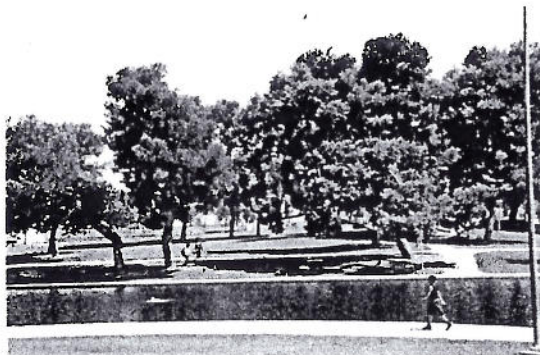
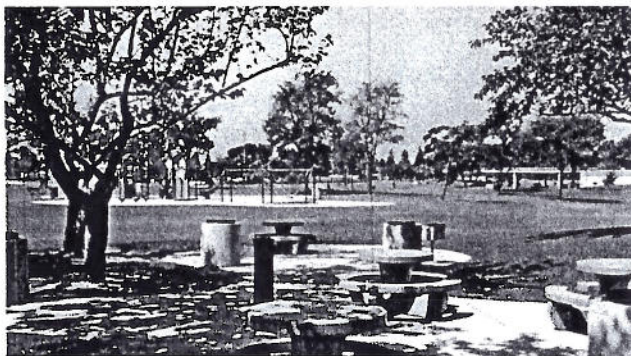
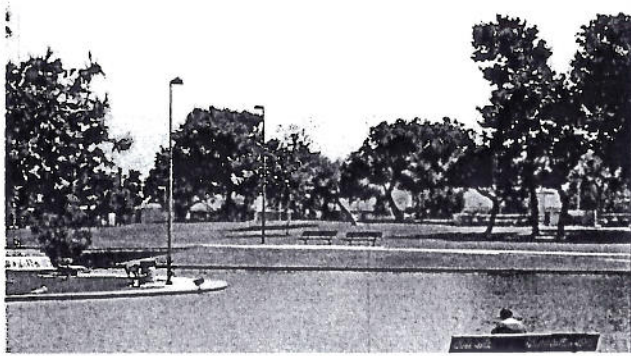
Client: City of Los Angeles Department of Recreation and Parks

AHBE Landscape Architects led a consultant team of coastal, structural and geotechnical engineers to design ADA compliant pedestrian access to the inner and outer beach environments at the Cabrillo Marine Aquarium (CMA) in San Pedro, California. Cabrillo Beach attracts about a million visitors a year, and 45,000 school children a year participate in CMA led tours of the marine environments.

The ocean beach access includes a 450-foot long, on-grade concrete pathway that connects to a 300-foot long elevated boardwalk along the shoreline bluffs. The pathway and boardwalk provide direct access to the Point Fermin Marine Life Refuge, with overlooks and viewpoints for the grunion beach and tidepools. Interpretive signs and exhibits were installed by CMA at the overlooks and viewpoints.

Additional accessible pathways link the CMA to the inner harbor beach and shoreline, and a historic bathhouse underwent restoration.

CERRITOS COMMUNITY REGIONAL PARK
CERRITOS, CALIFORNIA



Client: County of Los Angeles Department of Parks and Recreation

This 91-acre County regional park required major soil rehabilitation and a drought- and salt-tolerant plant palette emphasizing California natives. Highly compacted, poorly drained soils, combined with high-salinity recycled water had caused previous landscaping at the park to fail. Careful site planning concentrates planting in healthier soils and utilizes non-plant elements, such as hardscape or land art, in more contaminated soils. The entire site is now irrigated with reclaimed water.

AHBE Landscape Architects developed a four-pronged approach for overall turf renovation:

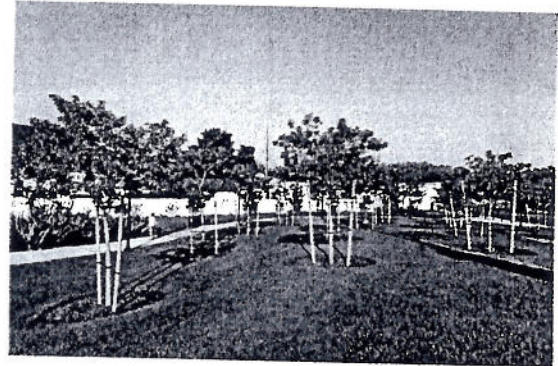
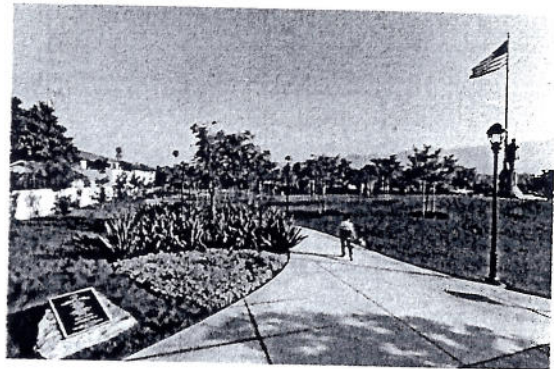
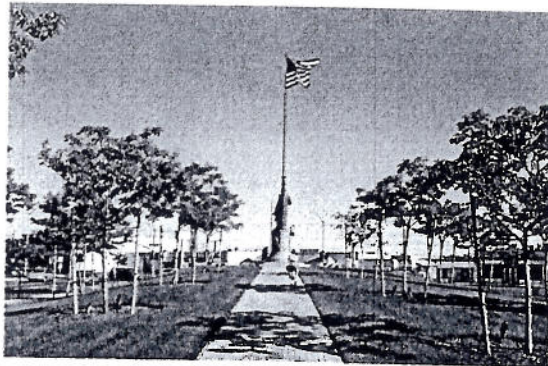
- Rebuild the root-zone in the areas with the worst conditions to increase permeability.
- Use highly salt-tolerant turf grass.
- Redesign new irrigation heads for proper coverage, including a "fertigation" system to apply fertilizers and sodium blockers directly with the irrigation/
- Install sub-drains in low-collection areas to prevent standing water.

As the prime consultant, AHBE Landscape Architects was responsible for the initial master plan and completed the design, construction documentation and field administration for this project.



AHBE

FIVE POINTS PARK
BURBANK, CALIFORNIA

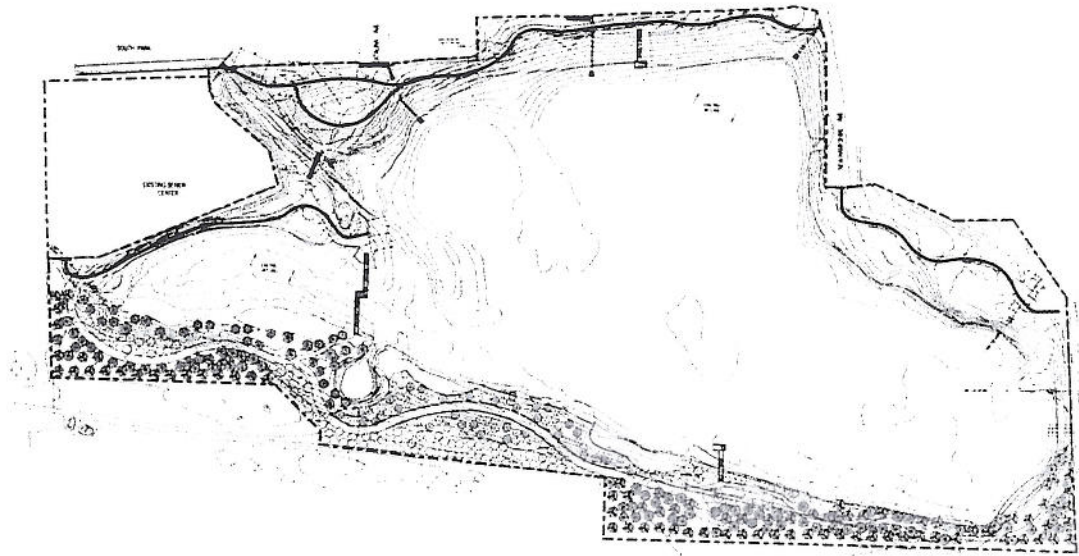


Client: City of Burbank Redevelopment Agency

AHBE Landscape Architects transformed an existing corner landscape into a new mini-park and community gateway for Burbank. Located at the highly visible intersection of Victory and Burbank Boulevards, the park also acts as a gateway into the City's downtown core. AHBE worked closely with artist Andrea Favilli to develop a landscape design that frames the park's focal point, a sculpture of Dr. David Burbank. The sculpture stands on a pedestal with mural-style images of the railroad, aviation, film industry, nature and commerce. These images represent the five industries that have contributed to Burbank's growth and give the park its name. New planting, site furniture, lighting, walkways and reclaimed water irrigation system complete the park design.

AHBE was the prime consultant on the project and provided design, construction documentation and construction administration services for planting, hardscape and irrigation.

GARDENA WILLOWS WETLAND
GARDENA, CALIFORNIA

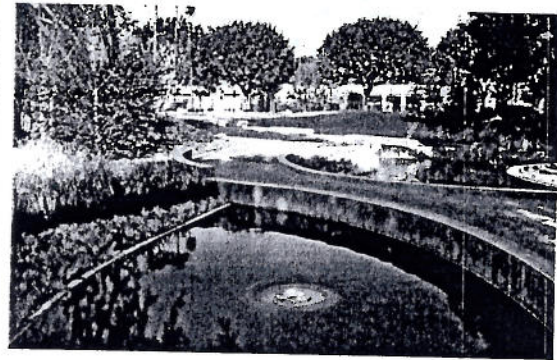
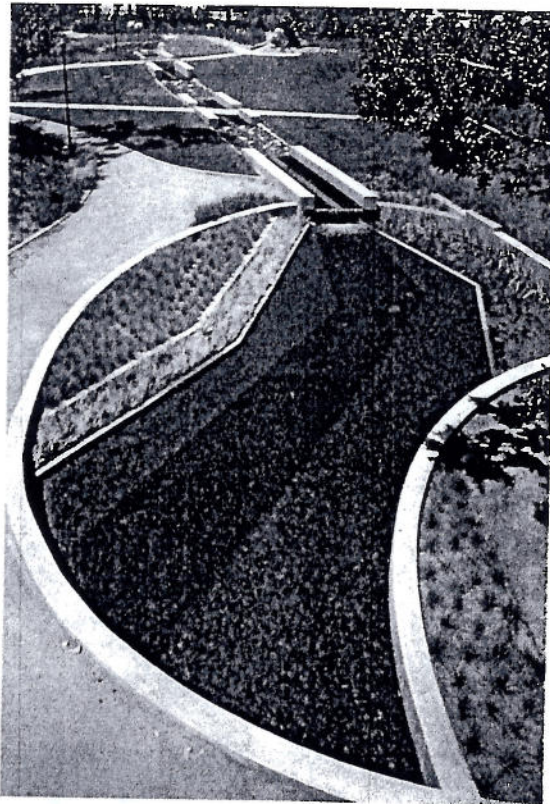


Client: City of Gardena

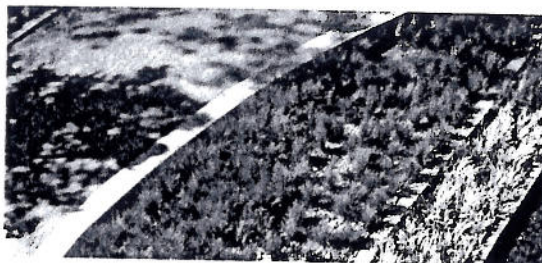
Located in an urban environment, the Gardena Willows was the last remaining undeveloped open space area in Gardena and is one of only four remaining wetlands in the South Coast Harbor Region of the Greater Los Angeles area. This 9.4-acre site contains distinct habitat areas that sustain marsh, riparian, coastal sage scrub, chaparral, and oak woodland plant communities.

AHBE led a team of consultants in the Willows' Phase 2 habitat restoration and pedestrian trails development. AHBE provided full services from pre-design through construction observation for vegetation removal, grading, functional site entry, maintenance access ways, pedestrian pathways and structures, planting and irrigation. We incorporated native upland and emergent marsh restoration planting and irrigation with trails, a boardwalk, bridge and overlook structures. In addition, we provided design solutions for storm water runoff problems into the wetland area from adjacent streets.

LOS ANGELES RIVER GARDEN PARK
LOS ANGELES, CALIFORNIA



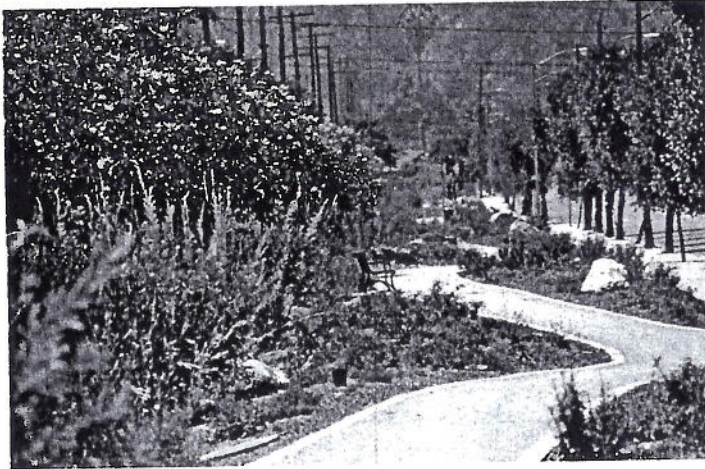
Client: Mountains Recreation and Conservation Authority



The Los Angeles River Garden Park is a conversion of a vacant lot into a new public park and garden. AHBE's design for the park captures the essence of the Los Angeles River's progress through its watershed—from the upper reaches, through the city, to the river estuary, and out to sea. The design incorporates the use of native plants, storm water retention, energy conservation, bio-swales, and a thematic water feature that uses a sustainable filtration system. The design also introduces sustainability into the redesign of an existing parking lot, replacing asphalt with a permeable surface to allow infiltration of rain water.

AHBE was the prime consultant on the project and provided design through construction administration services for planting, irrigation, and hardscape.

VALINDA AVENUE GREENWAY
WEST COVINA, CALIFORNIA



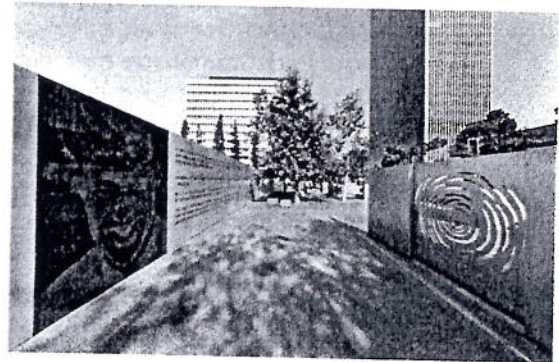
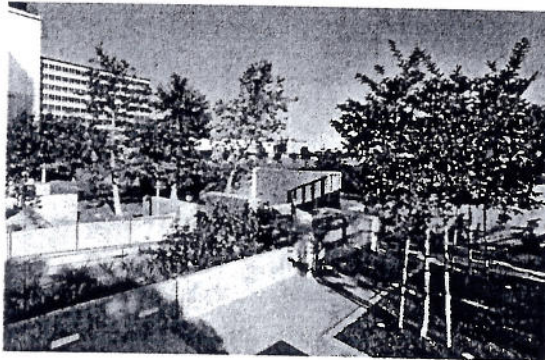
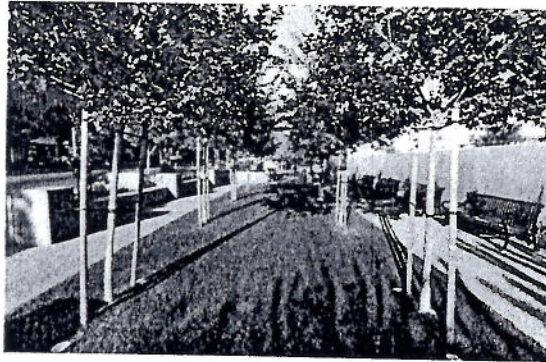
Client: County of Los Angeles Department of Public Works

AHBE led a team of consultants to transform a 50-foot wide vacant flood control channel into a demonstration greenway project along a half-mile length of Valinda Avenue, near West Covina, California.

As a demonstration project, AHBE explored passive technologies that could be used in the landscape to improve the area's "health". Adjacent to a multi-purpose path, a planted cobble bio-swale runs the length of the site, capturing, filtering and detaining the site's storm water runoff rather than draining directly into the Puente Creek channel. The linear natural park uses playful fluid bands of contrasting native plants, educational interpretive signage, and shaded seating areas to engage users as they meander along the serpentine trail. AHBE incorporated 24-foot wide sidewalks, drought-resistant plantings, shade trees, lighting, bike racks, and bench-seating. Water and energy conservation were the foundation for every design decision. Among the innovations were infiltration planters that serve as bio-swales, or bio-retention gardens. The design intent is that no storm water from the site will enter the city's storm drains.



ROBERT F. KENNEDY COMMUNITY SCHOOLS AND WILSHIRE
PUBLIC PARK
LOS ANGELES, CALIFORNIA



Owner: Los Angeles Unified School District

Located at the former site of the landmark Ambassador Hotel, this 24-acre campus is one of the largest school construction projects in the country and features separate facilities for elementary and secondary education. Working with Gonzalez Goodale Architects, AHBE Landscape Architects provided design services through construction administration for planting, hardscape and irrigation for the facility.

AHBE Landscape Architect's design, based on the concept of a quilt, weaves together the diverse demographics of the student population. To promote and encourage pedestrian traffic, AHBE integrated the street and parkway landscapes into the overall campus design to consider the students' experience upon arrival and departure.

Along the Wilshire Boulevard perimeter of the campus, AHBE's new, public linear park highlights and honors the life and work of Robert F. Kennedy with inspiration quotes. The original pylon from the Ambassador Hotel has been preserved and remains as a historical marker.

RELEVANT EXPERIENCE
SUBCONSULTANT PROJECTS

RELEVANT PROJECT LIST

PROJECTS IN BOLD FONT ARE FEATURED ON THE FOLLOWING PAGES.

Arroyo Viejo at Oakland Zoo, Oakland, California
Baxter Creek Gateway, El Cerrito, California
Bethune Park, Los Angeles, California
City of Carson Stormwater Management Engineering Services, Carson, California
Civic Park, Los Angeles, California
Compton Creek Earthen Bottom Enhancement Feasibility Study, Compton, California
Compton Creek Storm Drain Daylighting Feasibility Study for Water Quality Enhancement and Multifuse Benefits, Los Angeles, California
Copper Hill Park, Los Angeles, California
El Dorado Nature Center, Long Beach, California
Fernandez Ranch, Hercules, California
Garvanza Park Stormwater BMP Pre-Design and Design, Los Angeles, California
Glendale Pacific Park, Glendale, California
Headwaters Corner Master Plan, Calabasas, California
Kottinger Creek, Pleasanton, California
Loma Alta Park, Los Angeles, California
Mulligan Childrens Fun Center, Murrieta, California
Neighborhood & Community Parks Construction Cost Study, Glendale, California
Peck Park Canyon Enhancement Pre-Design and Design, Los Angeles, California
Persico Commercial Development Design, Downey, California
South Gate North Parcel Feasibility and Design Study, Los Angeles, California
Sun Valley Park Water Quality and Groundwater Recharge Project, Los Angeles, California
Woodall Rodgers Park, Dallas, Texas

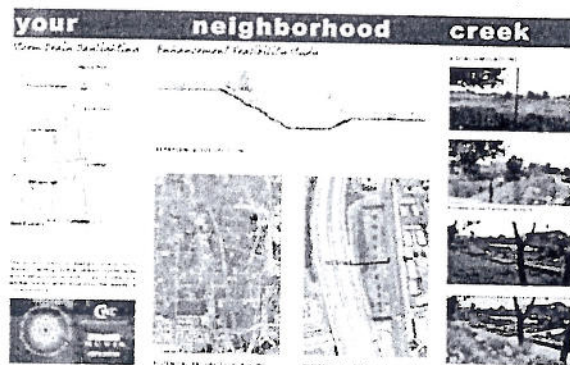
Compton Creek Storm Drain Daylighting Feasibility Study for Water Quality Enhancement and Multiuse Benefits

CWE assisted the Los Angeles and San Gabriel Rivers Watershed Council with the development of a project design feasibility study for storm drain daylighting projects in the Compton Creek Watershed with the primary objective of developing schematic designs to enhance water quality and provide multiuse benefits to this community which lacks open space and passive recreational facilities. Compton Creek is a



42.1 square mile sub-watershed of the Los Angeles River Watershed. The feasibility study prepared explored the use of vacant parcels along various storm drain systems to maximize open space and passive recreational opportunities while managing the existing flood control system, groundwater recharge strategies, urban and stormwater runoff reuse opportunities, water quality enhancements through the use of BMPs and LID strategies to address water quality impairments listed on the 303(d) list, reductions in dry-weather urban runoff and stormwater runoff volumes, and incorporation of native plants and habitat. Tasks completed as part of this feasibility study included:

- Performing a comprehensive analysis of storm drain as-built drawings, property ownership and right-of-way information, hydrologic data, storm drain depth and dimension information, and other planning and construction-related documents.
- Reviewing the catchment areas to evaluate site conditions adjacent to storm drains, identifying opportunities and constraints, examining the area's topography, analyzing upstream land uses for potential water quality impacts, documenting potential daylighting site locations, quantifying dry weather runoff volumes, and identifying connectivity of the proposed locations to existing parks and open space.
- Reviewing available soils data to determine general infiltration rates for proposed project areas.
- Performing hydrologic and hydraulic modeling to determine runoff water quality design volumes and water quality design flow rates to appropriately design daylighting site parameters to ensure adequate capacity and determining the selected location's ability to handle the required flow to ensure overbank flood protection.
- Reviewing municipal storm drain maintenance requirements and ensuring that a maintenance/management plan for the proposed projects provides the necessary access points and water quality measures to facilitate maintenance activities.
- Preparing focused area schematic designs and a final feasibility report that included: identifying known constraints and design criteria; identifying existing land uses and jurisdictional boundaries; completing a preliminary hydrologic analysis; water quality BMP recommendations to address the watershed's pollutants of concern; groundwater recharge and runoff reuse recommendations and alternatives; passive recreation and open space recommendations; naturalized streambank reinforcement recommendations for sites requiring streambank erosion controls; and developing preliminary cost estimates.



Duration: 7 months | **Project Cost:** \$175,000 | **Reference:** Alex Kenefick (213) 229-9948

EL DORADO NATURE CENTER STREAM RESTORATION

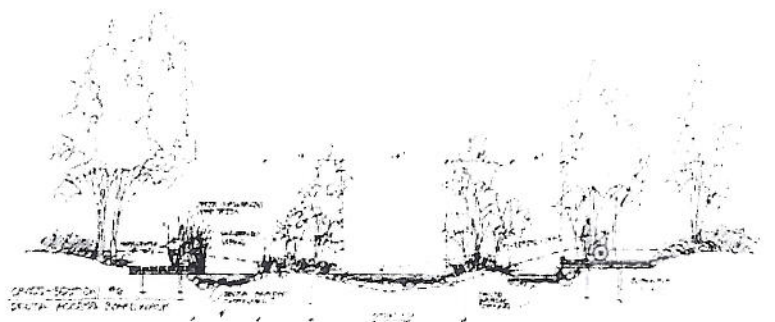
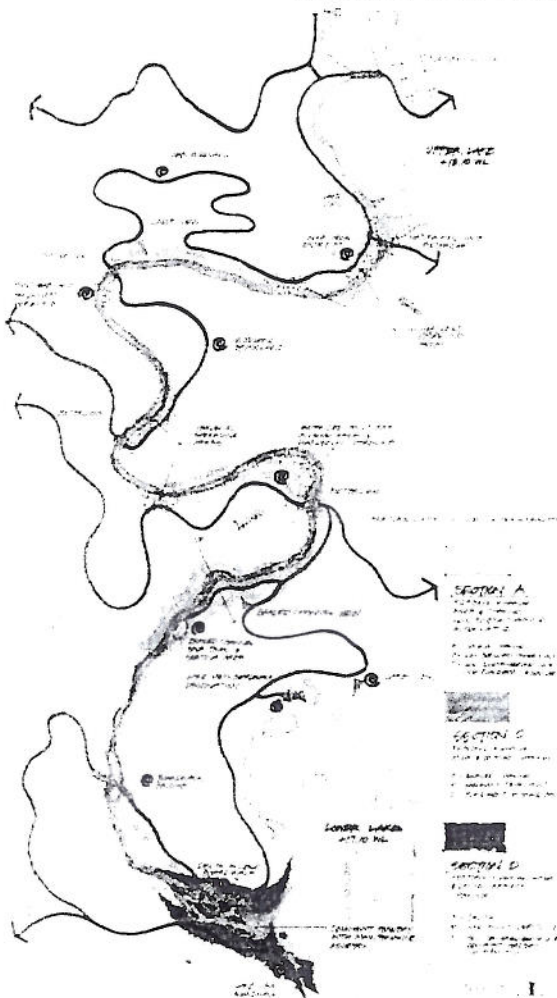
LONG BEACH, CALIFORNIA

Restoration Design Group led a public outreach and design process to restore a degraded, constructed stream at the El Dorado Nature Center. The El Dorado Nature Center is an approximately 100-acre environmental education and recreation center constructed and operated by the City of Long Beach Department of Parks, Recreation and Marine. The Nature Center serves over 150,000 annual visitors with education classes, day camps, special events, and walking trails.

Over time, flora in the riparian zone of a channel constructed in 1969 have become overgrown. The stream is eroding the banks to such an extent that, in places, the adjacent trail is at risk of crumbling into the stream. The erosion undermines bridge piers, trailside seating, shrubs, and trees. As the stream water continues to undermine

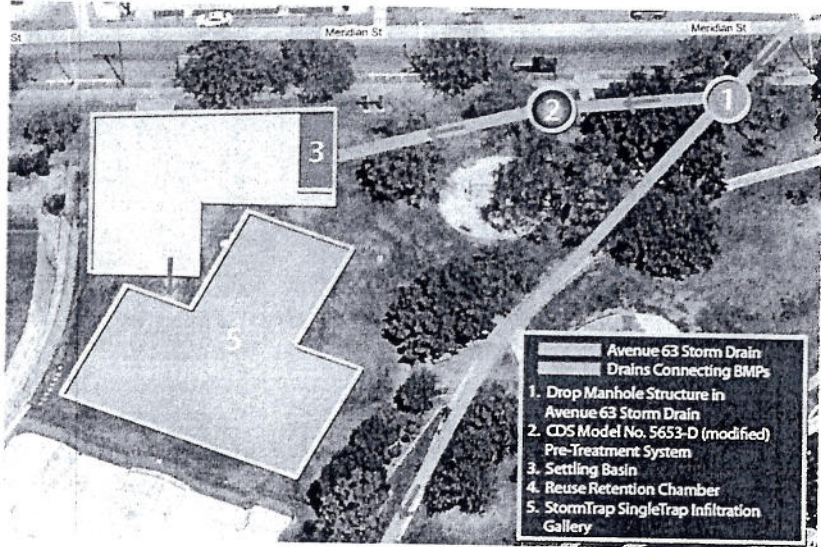
the bank, the soil washed from the banks combines with the decayed vegetation in the streambed and the stream has become shallower, from over 18 inches originally to three to four inches currently. The now shallow stream cannot support many varieties of aquatic species and it has become relatively barren.

Once restored, the creek will more closely mimic a natural stream. Eroded stream banks will be narrowed and hardened with a combination of boulders, logs, and bioengineering techniques. The streambed will be deepened, increasing the flow of water through the stream. Non-native vegetation in the riparian zone will be removed and native vegetation planted to create more natural riparian habitat.



Garvanza Park Multiuse Stormwater BMP Project for TMDL Compliance

CWE was retained by the City of Los Angeles' Bureau of Sanitation and North East Trees to provide professional civil engineering services to determine the feasibility of retrofitting Garvanza Park with subregional stormwater management BMPs to enhance the water quality of urban and stormwater runoff from an 85 acre watershed for TMDL compliance. CWE designed a drainage system to divert urban and stormwater runoff from an existing 48-inch reinforced concrete storm drain pipe into a pretreatment BMP system consisting of a hydrodynamic separator and settling basin and two subsurface detention-infiltration galleries for onsite infiltration and landscape irrigation reuse. Engineering services provided included: delineation and characterization of the tributary watershed; topographic ground survey; hydrology and hydraulic studies; pollutant load removal analysis; geotechnical analysis to determine construction implications; onsite infiltration testing; structural treatment control BMP design; preparation of specifications and cost estimates; grading and drainage plans; improvement plans; and earthwork calculations. CWE is currently providing Construction Management services for the construction of this \$3.3 million project.



Duration: 24 months | **Project Cost:** \$452,000 | **Reference:** Wing Tam, P.E. (213) 485-3985



SCREENING

Landscape Planting for Visual Buffer
PEDESTRIAN BRIDGE
 Remove Existing Culvert
 Restore Floodplain
 Provide 8' Wide, Accessible Bridge

REMOVE EXOTIC, INVASIVE SPECIES
 Remove Exotic Invasives Throughout the Project Area
 Replace with Native Upland or Floodplain Species

CREEK ACCESS AREA
 Existing Concrete Steps to Remain
 Panic Area or Informal Seating
 Optional Crossing
 Educational/Interpretive Opportunity

OPTIONAL BRIDGE OR RAIL

Option to Add Improvements to Existing Overcrossing
 Option to Remove Existing Culvert
 Restore Floodplain
 Install New 8' Wide, 30' Span Bridge

PROTECT HIGH-QUALITY RIPARIAN HABITAT

No Change to Creek Channel
 Protect Existing Trees & Riparian Habitat
 Prune/Trim Trees as Needed
 Remove Exotic, Invasive Species

EXISTING LAWN TO REMAIN
 Provide Edging to Delineate Maintenance Zones

STREET TREES
 Large Oaks & Flowering Native Trees
 Open Understory for Views to Creek

NATIVE HABITAT GARDEN
 Remove Lawn Between Path & Riparian Area
 Plant Native Habitat Garden Along Path
 with Ornamental Value & Seasonal Interest

WET MEADOW / FLOODPLAIN
 Provide Depressions for Wet Soil Areas
 Sunny Meadow with Tule Grass & Willows
 No Standing Water

EXISTING LAWN TO REMAIN
 Retain Recently Planted Trees

RIPIARIAN UNDERSTORY PLANTING
 Minimal Improvements in This Area
 New Railing at Existing Culvert Crossing
 Remove Exotic Invasive Species
 Remove Sackcrete & Add Planting on Slopes for Erosion Control & Slope Stabilization
 No change to Existing Creek Channel
 Protect Existing Trees

Kottinger Creek Restoration Project Schematic Design

KOTTINGER CREEK PARK IMPROVEMENTS

PLEASANTON, CALIFORNIA

The City of Pleasanton and the Friends of Kottinger Creek challenged the Restoration Design Group to restore the environmental structure and function of Kottinger Creek while maintaining the traditional open space setting of Kottinger Community Park. Over the years the creek had been channelized and much of its riparian vegetation had been removed. Trail crossings had been constructed with culverts that contributed to seasonal flooding and erosion.

Prior to design development, RDG facilitated a series of meetings with local stakeholders to identify the full array of design considerations for the park. The integration of landscape architecture and environmental restoration played an important role in developing a consensus for the design approach.

The RDG design provides a meandering creek within a riparian corridor, replacing culverts with bridges, increasing floodplain storage capacity, establishing creek access, while insuring that site-lines through the site enhance public safety.

To foster restoration stewardship, RDG prepared a Management & Maintenance Guide for city staff, community volunteers, and maintenance contractors. The Guide is based on the concept of Adaptive Maintenance, a process for continually improving or modifying management practices based on lessons learned in the field, and covers techniques for site evaluations, soil bioengineering, pruning, and plant identification.

01 Public Design Workshop

02 Attracting beneficial insects

03 Restored floodplain / riffle

04 Channel and bank planting